

METHOD AND DEVICE FOR MULTI-INTERVAL CHEBYSHEV COLLOCATION FOR  
EFFICIENT HIGH ACCURACY CIRCUIT SIMULATION

ABSTRACT

A method and apparatus are provided for solving a set of  
5 differential-algebraic equation arising in a circuit  
simulation is provided. A collocation method is applied to  
each differential-algebraic equation to discretize the set of  
differential-algebraic equations. A solution to the set of  
differential-algebraic equations based on the discretized  
10 differential-algebraic equation is then formed.